

Anca Ruxandra Rădulescu

Curriculum Vitæ

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Education

M.S. in Mathematics, SUNY at Stony Brook - 2000
B.S. in Mathematics, University of Bucharest, Romania - 1998
Computer Programming degree, Computer Science High-School,
Romania - 1994

Current employment

Graduate Student, SUNY at Stony Brook (Ph.D. expected December 2004)

Research interests

Dynamical Systems - *thesis advisor: John Milnor,*
Institute of Mathematical Sciences, Stony Brook
Mathematical Biology - *supervisor: Paul Adams,*
Department of Neuroscience, Stony Brook
Neuroscience - *supervisor: Carlos Brody,*
Cold Spring Harbor Laboratory

Honors and awards

- Summer Research Internship, Cold Spring Harbor Laboratory,
Summer 2004
- Research Assistantship, SUNY Stony Brook, Summer 2003 - present
- Teaching Assistantship, SUNY Stony Brook, Fall 1998 - Spring 2003
- National Scholarship for Exceptional Results, University of Bucharest,
Romania 1994 - 1998

- Selected for the National Mathematics Team, 1990 - 1994
- First, second and third prizes at the National Mathematics Olympics, Romania, 1987 - 1990

Work in progress

Anca Rădulescu - *The Connected Isentropes Conjecture in a Space of Quartic Polynomials* (Ph.D. thesis)

Paul Adams, Anca Radulescu - *A Dynamical Analysis of Adams' Model for a Neural Network*

Teaching experience

- Teaching Assistant: Introduction to Calculus (Fall 2001, Fall 1998); Calculus A (Fall 1999); Multivariable Calculus with Applications (Spring 1999).
- Instructor: Multivariable calculus (Fall 2003); Calculus I (Fall 2002); Calculus B (Fall 2004, Fall 2001, Spring 2000); Calculus A (Spring 2001); Overview of Calculus (Spring 2004, Fall 2000).
- Course Coordinator: Calculus II (Summer 2003); Overview of Calculus (Spring 2000); Calculus I (Summer 2001).

Conference lectures and seminar talks

Bones and Topological Entropy in a Parameter Space of Quartic Polynomials - Dynamics Seminar, Stony Brook, 2004

A Rigidity Theorem for Real Polynomials - 3 weeks lecture presentation, Stony Brook, 2004

The Dynamics of Learning - Graduate Student Seminar, Stony Brook, 2004

The Connected Isentrope Conjecture for a two-parameter family of polynomials - Mini Course/Dynamics Seminar, Stony Brook, 2003

On entropy of quartic polynomials - Stevens Institute of Technology, 2003

On the entropy and monotonicity of real polynomials - Mini Course/Dynamics Seminar, Stony Brook, 2003

Lyapunov stability for Oja's rule of unsupervised learning - Prodyn - Göttingen, 2001

Attended Conferences and Workshops

- *Conference in honor of John Mather*, Princeton, October 2002
- *International school on Biomathematics, Bioengineering and clinical aspects of blood flow*, MSRI, Berkeley, August 2002
- *Ahlfors - Bers Colloquium*, University of Connecticut, October 2001
- *School and workshop in Dynamical Systems*, Trieste, August 2001
- *Prodyn workshop*, Georg-August Universität, Göttingen, July 2001
- *Graphs and patterns in Mathematics and Theoretical Physics*, Stony Brook, June 2001
- *Around Dynamics*, Stony Brook, March 2001
- *Conference on Differential Equations and Dynamical Systems*, Instituto Superior Técnico, Lisbon 2000

Personal information

Born: July 21, 1975, in Alexandria, Romania

Citizenship: Romanian

Fluently spoken languages: Romanian, English, French

Programming skills: C, Pascal, Maple, MATLAB

Marital status: divorced

Visa status: F1